

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/038257 A1

(51) International Patent Classification⁷: **F04C 18/16**,
29/10

Mats [SE/SE]; Strandskatevägen 17, S-134 62 Ingarö
(SE). ÖHMAN, Henrik [SE/SE]; Adolf Lemons v. 15,
S-187 76 Täby (SE).

(21) International Application Number:
PCT/SE2004/001390

(74) Agent: **WIEDEMANN, Bernd**; Svenska Rotor Maskiner
AB, P. O. Box 15085, S-104 65 Stockholm (SE).

(22) International Filing Date:
30 September 2004 (30.09.2004)

(81) Designated States (*unless otherwise indicated, for every
kind of national protection available*): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(25) Filing Language: Swedish

(26) Publication Language: English

(30) Priority Data:
0302739-8 17 October 2003 (17.10.2003) SE

(71) Applicant (*for all designated States except US*): **SVEN-
SKA ROTOR MASKINER AB** [SE/SE]; P. O. Box
15085, S-104 65 Stockholm (SE).

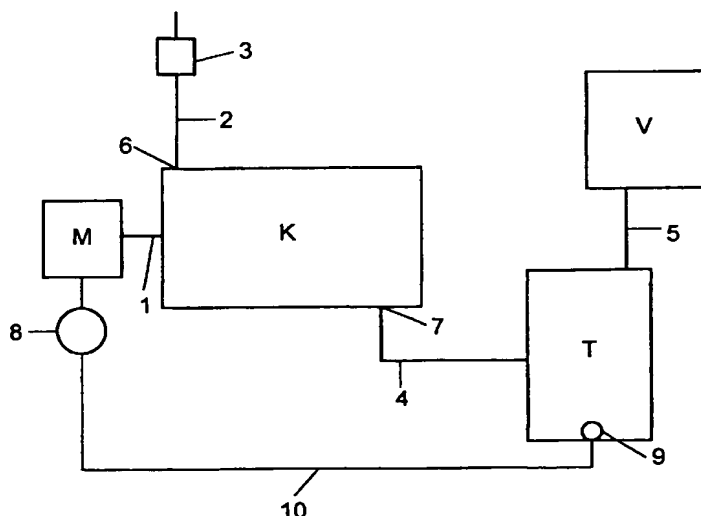
(84) Designated States (*unless otherwise indicated, for every
kind of regional protection available*): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **SUNDSTRÖM,**

[Continued on next page]

(54) Title: COMPRESSOR



(57) Abstract: A helical screw rotor compressor (K) adapted for working against a pressure container (T) whose pressure P is allowed to vary between a lowest pressure P₂ and a highest pressure P₁, said compressor being driven by an electric motor (M). The electric motor (M) is characterised by having in one operating range defined by the pressure interval P of said pressure container a quality such that halving of the torque of said motor will result an increase in motor speed of at least 6 percent. It is also preferred that the compressor is optimised for an internal volume factor at which the pressure of the compressor will be lower than P₂+0.85* (P₁-P₂) at the opening instance.



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*